

NEGATIVE DECLARATION

Department of Toxic Substances Control
[Program Name]Southern California Permitting and Corrective Action Division
[Address] 1011 North Grandview Ave.
[Glendale, CA 91201]

Subject: ☒ DRAFT ☐ FINAL ☐ MITIGATED

Project Title: Permit Renewal & Partial Closure of Beckman Coulter facility

State Clearinghouse No.:

Project Location:4300 Harbor Blvd., Fullerton CA. 92634

County: Orange

Project Description:

This Project entails renewal of Beckman Coulter's Hazardous Waste Storage Permit, partial closure of inactive Drum Storage Area #8 and partial closure of their inactive trichloroethane (TCA) tank. Beckman Coulter routinely treats its plating rinse water and stores its mixed waste, waste coolant and pseudocumene waste water for more than 90 days. The units that are being permitted or will be closed are as follows:

(1) Container Storage Area, Building 10, Bay 1, located in the northern end of Building 10, stores hazardous waste liquid in 55 gallon drums. The maximum amount of waste that the Facility is authorized to store in this area is 8,580 gallons or 156 drums. The unit is used to store used oils, irreclaimable coolant, irreclaimable solvents, fluorescent tube waste, waste machinery oil, paint sludge and other hazardous wastes. The unit measures 30 feet by 50 feet and provides secondary containment with a 3-inch tall berm. The overall room is equipped with a sprinkler system.

(2) Container Storage Area, Building 10, Bay 2, is located in the southern end of Building 10, stores hazardous waste liquid in 55 gallon drums. The maximum amount of waste that the facility is authorized to store in this area is 4,620 gallons or 84 drums. The unit is used to store irreclaimable solvents, fluorescent tube waste, waste machinery oil, paint sludge and other hazardous wastes. This unit measures 25 feet by 30 feet and provides secondary containment with a 3-inch tall berm. The overall room is equipped with a sprinkler system.

(3) Mixed Waste Storage Area, located in the south east corner of Building 6, stores waste Liquid Scintillation Cocktail (LSC) in bulk and in vials. The waste LSC is contained in 20 gallon drums that are inside of 55 gallon drums. The space between the drums is filled with diatomaceous earth or vermiculite, is a secured space within a larger room. The waste LSC is low level radioactive mixed waste. This unit measures 8 feet by 11 feet and is separated from the remainder of the space by a gated chain link fence. The overall room size is 19 foot-8 inches by 10 foot-7 inches. The larger room provides secondary containment and is surrounded by an 1 ½-inch tall berm. The overall room is equipped with a sprinkler system..

(4) Waste Machining Coolant Storage Tanks, located east of Building 6, store waste machining coolant. The waste machining coolant is contained in two 550 gallon cross linked high density polyethylene tanks that are double walled. The unit is used to store the un-reclaimable solution of water soluble oil and water used to cool the tooling during the various machining processes. The tanks are set on a 6 foot by 19.5 foot poured concrete containment pad which is surrounded by a 16.5-inch tall poured concrete wall.

(5) Waste Trimethylbenzene Storage Tank, located in between Building 11 and Building 10, contains trimethylbenzene wastewater, which consists of wash water from the mix tanks used to formulate liquid scintillation cocktail. Liquid scintillation cocktail is a mixture of organic chemicals used on liquid scintillation counters to measure the concentrations of chemicals tagged with a radioisotope in a sample. The wastewater is greater than 90% water with the balance of the wastewater being the organic chemicals that are used to manufacture the liquid scintillation cocktail. The waste trimethylbenzene solution is contained in a 2000 gallon tank. The Waste Trimethylbenzene Storage Tank is a horizontal dual-walled tank. The inner tank is 11 feet long with a diameter of 5 feet-7 inches. The outer tank is 11 feet- 6 inches long with a diameter of 6 feet. The tank material is mild steel.

(6) Plating Shop Neutralization System, located just east of the northeast corner of Building 6, treats rinse waters from the rinse tanks of various in-plant plating operations. The system consists of three separate chambers. Treatment is accomplished by the addition of sodium hydroxide solution to neutralize any acid in the wastewater to meet the pH requirements of the Orange County sanitation District, in order to precipitate the various hazardous metal ions contained in the rinsate. The precipitated metal hydroxides are periodically removed from the tanks during maintenance operations and disposed of at a hazardous waste landfill. The Plating Shop Neutralization System is a dual walled horizontal polypropylene tank. The outer tank surrounds the inner tank and is 145 ½ inches long by 96 ¾ inches deep by 43 ¾ inches wide. The inner tank is 139 ¼ inches long by 95 ¾ inches deep by 37 ¾ inches wide and is divided into three chambers. The Plating Shop Neutralization System is contained in a pit that has 4 inch thick concrete sides.

(7) Partial Closure of inactive Drum Storage Area #8, located west of Building 6, a 45-foot by 45 foot, fenced area with a 6 inch tall containment berm. No investigation has been performed.

(8) Partial Closure of inactive TCA tanks, located south of Building 3, which are two empty 1000 gallon steel above ground tanks, contained within a 24.6 foot by 6.5 foot containment area and surrounded by a 1.33 foot tall berm. At the time that the first Part B application was submitted, the hardware manufacturing operation included a TCA degreaser. This degreaser was the source of the waste TCA that was stored in the waste TCA tank. This degreaser has been eliminated from the operation. The TCA tank is empty. It will be removed after the closure plan has been approved. No investigation has been performed.

Beckman Coulter, Inc is an international supplier of medical diagnostic and scientific instruments. The company also manufactures the consumable supplies that are used with the instruments. These consumables include reagents, plastic parts, control and calibration standards and other parts and materials used on the instruments.

The facility, located at 4300 N. Harbor Boulevard, Fullerton, CA, contains manufacturing, R&D and administrative functions. The corporate headquarters is located at the facility. Manufacturing activities include instrument assembly, component manufacturing, hardware manufacturing, printing and reagent production. R&D includes new product development and support for existing product lines.

Instrument assembly operations consist of the assembly of parts produced at the facility, parts from other BCI facilities and OEM parts into finished instruments and instrument test. The types of regulated wastes generated by the assembly operations include solvents used for cleaning, effluent from instruments being tested and other types of wastes typically generated by laboratory operations. These wastes are accumulated in satellite accumulation areas, transferred to the hazardous waste storage area and transported off-site for third party treatment and disposal.

Component manufacturing is the production of small consumable plastic parts by injection and blow molding. The amount of hazardous waste generated by this operation is negligible.

Hardware manufacturing includes metal fabrication and metal finishing. The types of hazardous wastes generated from these activities include machine coolant, metal powders, solvents, deburring sludge and lubricants. These wastes are stored in either tanks or containers prior to transportation off-site for third party treatment and disposal. Metal finishing consists of plating, painting and silk screening. Waste rinse water from the plating operation passes through an elementary neutralization system prior to discharge to the municipal sewer. Paint and silk screen wastes, such as used filters and dirty rags, are stored in containers prior to transportation off-site for third party treatment and disposal.

There is a small printing operation at the facility. The amount of hazardous waste generated by this operation is negligible.

The chemical manufacturing operations produce the chemical reagents that are used on the instruments. The activities include chemical synthesis, purification, mixing and packaging. The types of regulated wastes generated by these operations include pseudocumene wastewater (stored in a tank), solvents and solid materials containing solvents. With the exception of the wastewater, all of the wastes are accumulated in satellite areas and stored in containers prior to transportation off-site for third party treatment and disposal.

Small quantities of low level radioactive mixed waste are produced from R&D and from production of calibration standards for the liquid scintillation counters. These wastes consist of liquid scintillation cocktail and liquid scintillation cocktail standards. The mixed wastes are delisted as radioactive wastes under condition 24 of the

facility's Radioactive Materials License (dated August 2, 1993). This condition is now condition 13 of the current license.

Only a small fraction of the hazardous wastes generated at the facility are either stored for more than 90 days or are treated on-site by elementary neutralization. The majority of the hazardous wastes are managed in containers and removed from the facility in less than 90 days. Waste liquid scintillation cocktail (LSC) is managed in containers and stored for more than 90 days. Waste coolant is managed in both containers and in tanks and is stored for more than 90 days. Pseudocumene wastewater is managed in a tank and stored for more than 90 days. Plating shop wastewater is treated in a tank system by elementary neutralization to meet the discharge requirements of the Orange County Sanitation District and then discharged to the municipal sewer.

Finding Of Significant Effect On Environment: *(An Initial Study supporting this finding is attached.)*

Mitigation Measures:

None.

Branch Chief Signature

Date

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